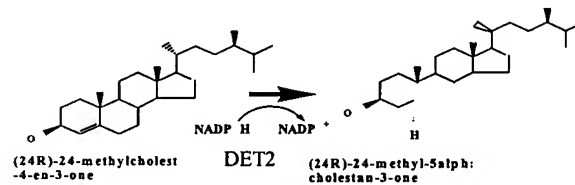


Figure 1. The 3-oxo-5-alpha-steroid 4-dehydrogenase (DET2) reaction.

Pathway:



Substrate:

(24R)-24-methylcholest-4-en-3-one

Product:

(24R)-24-methyl-5α-cholestan-3-one

Function:

The DET2 enzyme (an NADPH-dependent enzyme) is involved in the conversion of (24R)-24-methylcholest-4-en-3-one to (24R)-24-methyl-5α-cholestan-3-one. This reaction is part of the biosynthetic pathway of the brassinosteroids.